

PATENT COOPERATION TREATY

From the:
INTERNATIONAL SEARCHING AUTHORITY

To:

Alban Tay Mahtani & De Silva
39 Robinson Road
#07-01 Robinson Point
068911 Singapore

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing
(day/month/year) **10 FEB 2005**

Applicant's or agent's file reference
20402292

FOR FURTHER ACTION
See paragraph 2 below

International application No.
PCT/SG2004/000411

International filing date (day/month/year)
15 December 2004

Priority date (day/month/year)
15 December 2003

International Patent Classification (IPC) or both national classification and IPC
Int. Cl. ⁷ **H04N 7/50, H03M 7/30**

Applicant

MATRIXVIEW LIMITED et al

1. This opinion contains indications relating to the following items:

- | | | |
|-------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | Box No. I | Basis of the opinion |
| <input type="checkbox"/> | Box No. II | Priority |
| <input type="checkbox"/> | Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input type="checkbox"/> | Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> | Box No. V | Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> | Box No. VI | Certain documents cited |
| <input type="checkbox"/> | Box No. VII | Certain defects in the international application |
| <input type="checkbox"/> | Box No. VIII | Certain observations on the international application |

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the IPEA/AU
AUSTRALIAN PATENT OFFICE
PO BOX 200, WODEN ACT 2606, AUSTRALIA
E-mail address: pct@ipaustalia.gov.au
Facsimile No. (02) 6285 3929

Authorized Officer

MAKI MARYANOVICH
Telephone No. (02) 6283 2798

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Box No. I Basis of the opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- ☐ a sequence listing
☐ table(s) related to the sequence listing

b. format of material

- ☐ in written format
☐ in computer readable form

c. time of filing/furnishing

- ☐ contained in the international application as filed.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

**WRITTEN OPINION OF THE
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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims 2,4,6-11, 14-19, 23-25,28,29,31, 34, 35, 37-51,53	YES
	Claims 1, 3, 5, 12, 13, 20-22, 26, 27, 30, 32, 33, 36, 52	NO
Inventive step (IS)	Claims	YES
	Claims 1-53	NO
Industrial applicability (IA)	Claims 1-53	YES
	Claims	NO

Citations and explanations:

NOVELTY (N) Claims 1, 3, 5, 12, 13, 20-22, 26, 27, 30, 32, 33, 36, and 52:

- (a) US 2002/0084921 A1
- (b) US 6351568 B1
- (c) US 6263109 B1
- (d) WO 1998/037700A1

Claims 1, 20: Each of the citations (a), (b) and (d) explicitly discloses all of the features of each of the claims.
For example in citation (b) see:

- transforming the image data into a bit plane column 1, lines 47-51
- comparing each image element with "significant bit plane, column 1, lines 52-54
a previous image element...
- encoding repeating first and second value column 1, lines 58-60
- wherein the compressed image is able to be decompressed column 3, lines 25-26.

Claim 3: In citation (a) see Fig 5.

Claim 5: In citation (b) see abstract, and item 708 in Fig 7.

Claim 12: In citation (b) see column 9, lines 53-55.

Claim 13: In citation (b) see column 11, lines 44-45.

Claim 21, 52: In citation (d) see "the least possible distortion overall" page 4, lines 15-17.

Continued in the Supplemental Box....

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: V

Claim 22: In citation (a) see item 314 in Fig 4.

Claims 26, 32: Citation (c) explicitly discloses all of the features of these claims. For example see:

- | | |
|-----------------------------------------------|------------------------|
| - run-length decoding | column 8, line 67 |
| - arithmetically decoding the compressed data | column 10, lines 65-66 |
| - reverse transforming the decoded data | column 10, lines 14-15 |
| - rearranging the transformed decoded data | column 9, lines 59-60. |

Claim 27, 33: In citation (c) see "both horizontally and vertically" column 3, line 48.

Claim 30, 36: In citation (c) see column 3, line 44.

The features of the remaining claims are not found in any single application or patent published before the earliest priority date of the claims.

INVENTIVE STEP (IS) Claims 1-53:

Claims 1, 3, 5, 12, 13, 20-22, 26, 27, 30, 32, 33, 36 and 52: As above.

Claims 2, 4, 6-11, 14-19, 23-25, 28, 29, 31, 34, 35, 37-51 and 53: Above citations do not individually disclose all the features of these claims, but when combined, as would be obvious to a person skilled in the art, they disclose all of the features of the claims.

Therefore the claimed invention lacks an inventive step.